

PCT:WTV

Determination of heat transmission on exposure to flame

According to EN 367 and ISO 9151:1995

To evaluate the behaviour of materials used for heat protective clothing, when exposed to a flame.

Complies fully with the specifications, which are described in the standard ISO 9151:1995.



Test method

The specimen is subjected to a flame from a gas burner. The heat passing through the specimen is measured by means of a calorimeter that is in contact with the back of the material. The time is recorded for the temperature to rise to 24 degrees Celsius. The specimen support frame is mounted on a support stand so that the specimen is supported at the required distance above the gas burner.

This test provides a method for comparison or indexing of the heat transmission in representative samples of single-or multi-layer textile or other materials, used for heat-protective clothing.

The heat transfer index allows to compare different, single and multilayer materials, but in practice the protection time may vary per event.

Specifications

- Construction : Stainless and coated steel
- Heat source : Burner type, Meker, with a perforated flame nozzle.
Diameter (38 / ±2) mm.
- Sampleholder : Horizontal revolving frame, sample dimensions 14 x 14 cm.
- Temperature control : Cupper constantan thermo couple.
- Recording of test results : Dataconverter for thermo couple to PC. Including basic software, recording of temperature and time.
OPTIONAL - Software for calibration of the flux value, registration of the test values and automatic calculation, storage and processing of the measurement data. (PC not included)

Dimensions W x D x H (mm)

- Test apparatus : 300 x 350 x 400

- Weight (kg)** : approx. 10 kg.

Required connection

- Propane gas : Connector to local gas supply and gas not included.